ABSTRACT

Methods for Cystic Fibrosis disease assessment in an individual comprise detecting the presence or absence of outer membrane protein in a sample from an individual or the methods comprise detecting the presence or absence of outer membrane protein antibodies in a sample from an individual. Methods for treating anaerobic *Pseudomonas aeruginosa* biofilms in Cystic Fibrosis disease comprise detecting the presence of outer membrane protein in a sample from an individual; and selecting a therapy regimen for the individual based on the presence of OprF, wherein the anaerobic *Pseudomonas aeruginosa* biofilms in Cystic Fibrosis disease are treated by the therapy regimen or the methods comprise detecting the presence of outer membrane protein antibodies in a sample from an individual; and selecting a therapy regimen for the individual based on the presence of OprF antibodies; wherein the anaerobic *Pseudomonas aeruginosa* biofilms in Cystic Fibrosis disease are treated by the therapy regimen.